

AMENDMENTS

In the Claims:

Please cancel claim 6.

Please amend the claims as follows.

C1
4. (Amended) An apparatus for statistical multiplexing of ATM links, comprising:
a plurality of virtual connections which transmit ATM cells via a connecting line;
and
incoming connections which are assigned to a first or a second class depending on
a result of a predetermined analysis, wherein the first class is subdivided into sub-classes,
wherein the analysis is performed, in sequence, on each of the sub-classes until the incoming
connection is assigned to a sub-class or all the sub-classes have been analyzed.

5. (Amended) The apparatus as claimed in claim [1]4, wherein at least one [of the]
transmission [parameters] parameter of the connecting line or the connection are used to
determine the result of the analysis.

C2
7. (Amended) The [method] apparatus as claimed in claim [1]4, wherein at least one
of the transmission parameters and the analysis results are stored in a network node and are
updated when an ATM link is set up and/or cleared.

Please add the following new claims.

C3
8. (New) A method for statistical multiplexing of ATM links, comprising:
providing a plurality of virtual connections which transmit ATM cells via a
connecting line; and
assigning incoming connections to a first or a second class depending on a result
of a predetermined analysis, wherein the first class is subdivided into sub-classes, wherein the
analysis is performed, in sequence, on each of the sub-classes until the incoming connection is
assigned to a sub-class or all the sub-classes have been analyzed.

9. (New) The method as claimed in claim 8, wherein at least one transmission parameter of the connecting line or the connection are used to determine the result of the analysis.

10. (New) The method as claimed in claim 8, wherein at least one of the transmission parameters and the analysis results are stored in a network node and are updated when an ATM link is set up and/or cleared.
